



## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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Michael R. Pence  
Governor

Thomas W. Easterly  
Commissioner

Mr. Frank Acevedo  
Mobile Source Program Manager  
U.S. EPA Region 5  
77 West Jackson Boulevard  
Chicago, IL 60604-3511

August 14, 2015

Dear Mr. Acevedo,

Enclosed is Indiana's comprehensive 2014 annual report for the vehicle emissions testing program known as the Clean Air Car Check.

I would like to direct your attention to the Enforcement Report Section (d)(2)(ii). We have submitted a combined registrations and compliance analysis for 2013 and 2014 as a part of this 2014 annual report. In order to accurately analyze Indiana's biennial testing program we found it helpful to include two years of registration and testing analysis.

Also, please note that in the Enforcement Report (d)(1)(vi) regarding compliance surveys, Indiana is using on-road testing data as a basis for compliance survey reports. The Indiana program performs biennial on-road testing collecting data on 1.0 % of the testable vehicle fleet. As a result of that testing schedule we are not submitting a response to (d)(1)(vi) for 2014 but will be including that data and analysis as a part of the 2015 annual report.

If you have any questions or need additional information concerning this report, please contact Phil Doyle of my staff at (317) 232-8420, or via email at [pdoyle@idem.in.gov](mailto:pdoyle@idem.in.gov).

Sincerely,

Scott Deloney, Chief  
Air Programs Branch  
Office of Air Quality

40 CFR Part 51-Subpart S  
Inspection/Maintenance Program Requirements  
51.366  
Data Analysis and Reporting Requirements  
For the State of Indiana  
For the Calendar Year  
2014

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

The program shall submit to EPA by July of each year a report providing basic statistics on the testing program for January through December of the previous year, including:

- (1) The number of vehicles tested by model year and vehicle type:

244,306 vehicle tests

See the attached report:

(a)(1) Vehicles Tested by Model Year and Vehicle Type 2014

**(a)(1) Vehicles Tested by Model Year and Vehicle Type**

MODEL YEAR	VEHICLE TYPE				TOTAL
	Type 1	Type 2	Type P	Other	
1976	10	18	94	0	122
1977	0	2	12	0	14
1978	19	35	128	0	182
1979	8	8	25	0	41
1980	20	17	84	0	121
1981	2	3	18	0	23
1982	23	21	73	0	117
1983	5	4	25	0	34
1984	47	36	255	0	338
1985	11	12	67	0	90
1986	78	62	360	0	500
1987	17	8	76	0	101
1988	281	193	542	0	1,016
1989	61	29	113	0	203
1990	459	242	980	0	1,681
1991	85	34	173	0	292
1992	677	625	1,999	0	3,301
1993	171	136	294	0	601
1994	1,819	1,641	3,378	0	6,838
1995	235	268	483	0	986
1996	3,553	2,665	6,735	0	12,953
1997	518	344	923	0	1,785
1998	6,616	3,563	10,113	0	20,292
1999	612	480	1,189	0	2,281
2000	8,644	5,143	15,957	0	29,744
2001	822	441	1,730	0	2,993
2002	9,985	5,363	17,504	0	32,852
2003	642	400	1,338	0	2,380
2004	9,583	6,611	16,718	0	32,912
2005	582	403	1,054	0	2,039
2006	9,408	5,731	16,169	0	31,308
2007	414	356	785	0	1,555
2008	8,088	6,785	15,644	0	30,517
2009	153	178	415	0	746
2010	6,289	4,609	12,034	0	22,932
2011	119	180	117	0	416
<b>Grand Total</b>	<b>70,056</b>	<b>46,646</b>	<b>127,604</b>	<b>0</b>	<b>244,306</b>

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(i) Failing initially, per test type:

BAR-90, Single speed idle test,	130
IM-93, Enhanced I/M test,	3,368
OBD II, On-board diagnostic check,	13,789

See attached report:

(a)(2)(i) Vehicles Tested by Model Year and Vehicle Type: The Number and %  
Initially Failing per Test Type

## (a)(2)(i) Vehicles Tested by Model Year and Vehicle Type: The Number and % Initially Failing per Test Type

TEST_TYPE	MODEL_YEAR	Type 1	Type 2	Type P	OTHER	Count	Type 1	Type 2	Type P	
IM-93 Enhanced Test	1981	2	1	5	0	8	25%	12%	62%	3368
	1982	4	5	16	0	25	16%	20%	64%	
	1983	2	1	6	0	9	22%	11%	66%	
	1984	7	11	45	0	63	11%	17%	71%	
	1985	3	2	11	0	16	18%	12%	69%	
	1986	12	14	70	0	96	12%	14%	72%	
	1987	2	2	13	0	17	11%	11%	76%	
	1988	55	45	112	0	212	25%	21%	52%	
	1989	15	7	16	0	38	39%	18%	42%	
	1990	85	61	176	0	322	26%	18%	54%	
	1991	20	9	32	0	61	32%	14%	52%	
	1992	144	164	460	0	768	18%	21%	59%	
	1993	48	27	54	0	127	36%	21%	42%	
	1994	328	364	653	0	1,345	24%	27%	48%	
	1995	35	50	81	0	166	21%	30%	48%	
	1996	2	18	11	0	31	6%	58%	35%	
	1998	0	17	4	0	21	0%	80%	19%	
	2000	0	16	0	0	16	0%	100%	0%	
	2002	0	16	0	0	16	0%	100%	0%	
	2003	0	2	0	0	2	0%	100%	0%	
	2004	0	6	0	0	6	0%	100%	0%	
	2006	0	2	0	0	2	0%	100%	0%	
	2008	0	1	0	0	1	0%	100%	0%	
OBD II Test	1996	376	199	627	0	1,202	31%	16%	52%	13,789
	1997	41	32	79	0	152	26%	21%	51%	
	1998	603	284	995	0	1,882	32%	15%	52%	
	1999	51	38	97	0	186	27%	20%	52%	
	2000	661	316	1,501	0	2,478	26%	12%	60%	
	2001	60	28	134	0	222	27%	12%	60%	
	2002	777	354	1,461	0	2,592	29%	13%	56%	
	2003	38	22	94	0	154	24%	14%	61%	
	2004	534	333	1,100	0	1,967	27%	16%	55%	
	2005	34	20	68	0	122	27%	16%	55%	
	2006	468	282	895	0	1,646	28%	17%	54%	
	2007	20	13	43	0	76	26%	17%	56%	
	2008	164	168	493	0	825	19%	20%	59%	
	2009	6	4	10	0	20	30%	20%	50%	
	2010	65	62	133	0	260	25%	23%	51%	
Single Speed Idle Test	1976	4	1	13	0	18	22%	5%	72%	17287
	1977	0	0	5	0	5	0%	0%	100%	
	1978	5	9	26	0	40	12%	22%	65%	
	1979	4	3	5	0	12	33%	25%	41%	
	1980	3	4	19	0	26	11%	15%	73%	
	1983	0	1	0	0	1	0%	100%	0%	
	1984	0	0	1	0	1	0%	0%	100%	
	1986	1	0	1	0	2	50%	0%	50%	
	1987	0	0	1	0	1	0%	0%	100%	
	1988	0	0	1	0	1	0%	0%	100%	
	1989	0	0	2	0	2	0%	0%	100%	
	1990	1	0	1	0	2	50%	0%	50%	
	1991	0	0	1	0	1	0%	0%	100%	
	1992	1	1	4	0	6	16%	16%	66%	
	1994	2	0	8	0	10	20%	0%	80%	
	1995	0	1	0	0	1	0%	100%	0%	
	2004	0	1	0	0	1	0%	100%	0%	

17287

130

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(ii) Failing the first retest per test type:

BAR-90, Single speed idle test	51
IM-93, Enhanced I/M test	1452
OBD II, On-board diagnostic check	3005

See attached report:

(a)(2)(ii) The Number and % Failing the First Retest per Test Type 2014

(a)(2)(ii) The Number and % Failing the First Retest per Test Type 2014

TEST_TYPE	MODEL_YEAR	Type 1	Type 2	Type P	OTHER	Count	Type 1	Type 2	Type P
IM-93 Enhanced Test	1981	0	0	1	0	1	0%	0%	100%
	1982	2	2	4	0	8	25%	25%	50%
	1983	0	0	4	0	4	0%	0%	100%
	1984	3	2	19	0	24	12%	8%	79%
	1985	1	1	9	0	11	9%	9%	81%
	1986	6	6	15	0	27	22%	22%	55%
	1987	1	0	9	0	10	10%	0%	90%
	1988	23	16	38	0	77	29%	20%	49%
	1989	5	2	9	0	16	31%	12%	56%
	1990	36	23	59	0	118	30%	19%	50%
	1991	9	4	18	0	31	29%	12%	58%
	1992	55	73	195	0	323	17%	22%	60%
	1993	15	19	34	0	68	22%	27%	50%
	1994	122	161	284	0	567	21%	28%	50%
	1995	28	32	50	0	110	25%	29%	45%
	1996	1	4	13	0	18	5%	22%	72%
	1998	3	8	3	0	14	21%	57%	21%
	2000	2	8	1	0	11	18%	72%	9%
	2001	0	1	0	0	1	0%	100%	0%
	2002	1	4	2	0	7	14%	57%	28%
	2003	0	1	0	0	1	0%	100%	0%
	2004	0	2	2	0	4	0%	50%	50%
	2006	0	1	0	0	1	0%	100%	0%
	1996	116	72	161	0	349	33%	20%	46%
	1997	29	10	45	0	84	34%	11%	53%
	1998	151	83	219	0	453	33%	18%	48%
	1999	20	26	58	0	104	19%	25%	55%
	2000	141	60	353	0	554	25%	10%	63%
	2001	26	13	66	0	105	24%	12%	62%
	2002	140	51	328	0	519	26%	9%	63%
	2003	18	14	43	0	75	24%	18%	57%
	2004	107	51	186	0	344	31%	14%	54%
	2005	14	5	34	0	53	26%	9%	64%
	2006	69	42	114	0	225	30%	18%	50%
	2007	6	5	15	0	26	23%	19%	57%
	2008	19	24	40	0	83	22%	28%	48%
	2009	2	0	7	0	9	22%	0%	77%
	2010	2	3	16	0	21	9%	14%	76%
OBD II Test	2011	0	1	0	0	1	0%	100%	0%
	1976	1	1	7	0	9	11%	11%	77%
	1977	0	0	2	0	2	0%	0%	100%
	1978	2	3	7	0	12	16%	25%	58%
	1979	0	2	4	0	6	0%	33%	66%
	1980	2	1	10	0	13	15%	7%	76%
	1987	0	0	1	0	1	0%	0%	100%
	1990	0	0	2	0	2	0%	0%	100%
	1992	0	1	2	0	3	0%	33%	66%
	1994	0	0	2	0	2	0%	0%	100%
Single Speed Idle test	2004	0	1	0	0	1	0%	100%	0%

4508

1452

3005

51



2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(iii) Passing the first retest per test type:

BAR-90, Single speed idle test	43
IM-93, Enhanced I/M test	1,469
OBD II, On-board diagnostic check	14,364

See attached report:

(a)(2)(iii) The Number and % Passing the First Retest per Test Type

TEST_TYPE	MODEL_YEAR	Type 1	Type 2	Type P	OTHER	Count	Type 1	Type 2	Type P	
IM-93 Enhanced Test	1981	0	0	3	0	3	0%	0%	100%	
	1982	1	1	7	0	9	11%	11%	77%	
	1983	1	0	1	0	2	50%	0%	50%	
	1984	1	6	12	0	19	5%	31%	63%	
	1985	1	0	6	0	7	14%	0%	85%	
	1986	8	2	27	0	37	21%	5%	72%	
	1987	1	0	1	0	2	50%	0%	50%	
	1988	25	21	42	0	68	28%	23%	47%	
	1989	7	5	10	0	22	31%	22%	45%	
	1990	34	27	72	0	133	25%	20%	54%	
	1991	9	3	12	0	24	37%	12%	50%	
	1992	69	57	170	0	293	22%	19%	58%	
	1993	24	14	22	0	60	40%	23%	36%	
	1994	146	120	201	0	467	31%	25%	43%	
	1995	18	18	28	0	64	28%	28%	43%	
	1996	6	14	19	0	39	15%	35%	48%	
	1997	0	2	1	0	3	0%	66%	33%	
	1998	6	7	17	0	30	20%	23%	56%	
	1999	1	0	0	0	1	100%	0%	0%	
	2000	10	11	12	0	33	30%	33%	36%	
	2001	2	1	4	0	7	28%	14%	57%	
	2002	5	12	57	0	74	6%	16%	77%	
	2003	2	3	4	0	9	22%	33%	44%	
	2004	2	6	9	0	17	11%	35%	52%	
	2005	0	1	0	0	1	0%	100%	0%	
	2006	4	4	2	0	10	40%	40%	20%	
	2007	0	0	1	0	1	0%	0%	100%	
	2008	6	1	2	0	9	66%	11%	22%	
	2009	0	0	1	0	1	0%	0%	100%	
	2010	0	0	4	0	4	0%	0%	100%	1469
1996	303	211	566	0	1,020	29%	20%	49%		
1997	45	21	75	0	141	31%	14%	53%		
1998	567	286	889	0	1,742	32%	16%	51%		
1999	66	46	108	0	220	30%	20%	49%		
2000	718	401	1,384	0	2,503	28%	16%	55%		
2001	87	43	177	0	307	28%	14%	57%		
2002	784	404	1,404	0	2,592	30%	15%	54%		
2003	64	42	134	0	240	26%	17%	55%		
2004	573	440	1,109	0	2,122	27%	20%	52%		
2005	44	35	113	0	192	22%	18%	58%		
2006	541	330	886	0	1,757	30%	18%	50%		
2007	25	28	73	0	126	19%	22%	57%		
2008	208	219	545	0	972	21%	22%	56%		
2009	7	11	15	0	33	21%	33%	45%		
2010	90	92	209	0	391	23%	23%	53%		
OBD II Test	2011	3	3	0	0	6	50%	50%	0%	14,364
Single Speed Idle Test	1976	1	0	5	0	6	16%	0%	83%	
	1977	0	0	2	0	2	0%	0%	100%	
	1978	2	2	12	0	16	12%	12%	75%	
	1979	3	1	1	0	5	60%	20%	20%	
	1980	1	0	1	0	2	50%	0%	50%	
	1983	0	0	1	0	1	0%	0%	100%	
	1984	0	0	1	0	1	0%	0%	100%	
	1986	1	0	0	0	1	100%	0%	0%	
	1990	1	0	1	0	2	50%	0%	50%	
	1992	1	0	3	0	4	25%	0%	75%	
	1994	0								

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(iv) Passing the second or subsequent retest per test type:

BAR-90, Single speed idle test	76
IM-93, Enhanced I/M test	3,157
OBD II, On-board diagnostic check	21,794

See attached report:

(a)(2)(iv) The Number and % Passing the 2<sup>nd</sup> or Subsequent Retest per Test Type

## (a)(2)(iv) Vehicles Tested by Model Year and Vehicle Type: The Number and % Passing the 2nd or Subsequent Tests per Test

TEST_TYPE	MODEL_YEAR	Type 1	Type 2	Type P	OTHER	Count	Type 1	Type 2	Type P
IM-93 Enhanced Test	1981	0	0	3	0	3	0%	0%	100%
	1982	2	3	8	0	13	15%	23%	61%
	1983	1	0	3	0	4	25%	0%	75%
	1984	4	7	20	0	31	12%	22%	64%
	1985	2	0	9	0	11	18%	0%	81%
	1986	11	4	32	0	47	23%	8%	68%
	1987	3	0	8	0	11	27%	0%	72%
	1988	40	31	65	0	136	29%	22%	47%
	1989	8	6	21	0	35	22%	17%	60%
	1990	57	39	111	0	207	27%	18%	53%
	1991	16	5	28	0	49	32%	10%	57%
	1992	105	104	287	0	496	21%	20%	57%
	1993	39	34	63	0	136	28%	25%	46%
	1994	231	230	373	0	834	27%	27%	44%
	1995	49	58	62	0	167	29%	33%	37%
	1996	32	33	86	0	151	21%	21%	58%
	1997	7	4	13	0	24	29%	16%	54%
	1998	42	27	59	0	128	32%	21%	46%
	1999	3	4	15	0	22	13%	18%	68%
	2000	46	20	84	0	150	30%	13%	56%
	2001	19	7	40	0	66	28%	10%	60%
	2002	29	19	169	0	217	13%	8%	77%
	2003	3	10	20	0	33	9%	30%	60%
	2004	16	10	49	0	75	21%	13%	65%
	2005	4	2	8	0	14	28%	14%	57%
	2006	25	10	10	0	45	55%	22%	22%
	2007	4	0	5	0	9	44%	0%	55%
	2008	19	3	7	0	29	65%	10%	24%
	2009	0	0	2	0	2	0%	0%	100%
	2010	3	0	9	0	12	25%	0%	75%
	1996	532	382	884	0	1,788	29%	21%	49%
	1997	86	47	150	0	283	30%	16%	53%
	1998	957	513	1,380	0	2,850	33%	18%	48%
	1999	109	86	210	0	405	26%	21%	51%
	2000	1,148	652	2,142	0	3,940	29%	16%	54%
	2001	172	88	375	0	635	27%	13%	59%
	2002	1,135	535	2,043	0	3,713	30%	14%	55%
	2003	130	67	289	0	486	26%	13%	59%
	2004	788	561	1,542	0	2,891	27%	19%	53%
	2005	98	53	202	0	353	27%	15%	57%
	2006	750	422	1,178	0	2,360	32%	17%	48%
	2007	45	39	118	0	202	22%	19%	58%
	2008	281	295	698	0	1,274	22%	23%	54%
	2009	9	12	27	0	48	18%	25%	56%
	2010	129	114	307	0	550	23%	20%	55%
OBD II Test	2011	3	3	0	0	6	50%	50%	0%
	1976	1	1	8	0	10	10%	10%	80%
	1977	0	0	2	0	2	0%	0%	100%
	1978	3	2	15	0	20	15%	10%	75%
	1979	3	1	4	0	8	37%	12%	50%
	1980	1	1	5	0	7	14%	14%	71%
	1983	0	0	1	0	1	0%	0%	100%
	1984	0	0	2	0	2	0%	0%	100%
	1986	1	0	0	0	1	100%	0%	0%
	1989	0	0	1	0	1	0%	0%	100%
	1990	1	0	2	0	3	33%	0%	66%
	1992	1	1	4	0	6	16%	16%	66%
	1994	0	0	5	0	5	0%	0%	100%
	1995	0	0	0	0	1	0%	0%	0%
	1996	0	0	1	0	1	0%	0%	100%
	2000	0	0	1	0	1	0%	0%	100%
	2002	0	0	1	0	1	0%	0%	100%
	2004	0	1	2	0	3	0%	33%	66%
	2005	0	1	0	0	1	0%	100%	0%
	2006	0	1	1	0	2	0%	50%	50%
Single Speed Idle Test									

3157

21,794

76

25027

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(v) Initially failed vehicles receiving a waiver:

Total 975

See attached report:

(a)(2)(v) Initially Failed Vehicles Receiving a Waiver, 2014

(a)(2)(v) Initially Failed Vehicles Receiving a Waiver 2014

MODEL YEAR	VEHICLE TYPE					PERCENTAGE VEHICLE TYPE		
	Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P
1976	0	0	4	2	6	0%	0%	66%
1978	1	1	3	5	10	10%	10%	30%
1979	0	0	1	0	1	0%	0%	100%
1980	0	0	12	2	14	0%	0%	85%
1981	0	0	1	0	1	0%	0%	100%
1982	0	0	9	2	11	0%	0%	81%
1983	0	0	1	0	1	0%	0%	100%
1984	0	1	7	0	8	0%	12%	87%
1985	0	1	1	0	2	0%	50%	50%
1986	1	1	4	1	7	14%	14%	57%
1987	1	0	2	1	4	25%	0%	50%
1988	2	0	9	1	12	16%	0%	75%
1989	1	1	1	0	3	33%	33%	33%
1990	0	0	8	0	8	0%	0%	100%
1991	0	0	3	0	3	0%	0%	100%
1992	1	1	8	1	11	9%	9%	72%
1993	1	2	9	1	13	7%	15%	69%
1994	4	5	17	1	27	14%	18%	62%
1995	2	0	8	0	10	20%	0%	80%
1996	3	0	25	0	28	10%	0%	89%
1997	1	0	6	0	7	14%	0%	85%
1998	9	5	29	5	48	18%	10%	80%
1999	4	2	7	1	14	28%	14%	50%
2000	0	0	0	1	1	0%	0%	0%
2001	20	7	44	14	85	23%	8%	51%
2002	0	3	9	5	17	0%	17%	52%
2003	10	7	69	13	99	10%	7%	69%
2004	1	1	0	3	5	20%	20%	0%
2005	12	9	63	12	96	12%	9%	65%
2006	1	0	11	0	12	8%	0%	91%
2007	12	6	107	8	133	9%	4%	80%
2008	0	1	16	0	17	0%	5%	94%
2009	16	14	77	1	108	14%	12%	71%
2010	0	0	4	0	4	0%	0%	100%
2011	4	4	130	2	140	2%	2%	92%
2012	0	0	5	2	7	0%	0%	71%
2013	0	0	1	0	1	0%	0%	100%
2014	0	0	1	0	1	0%	0%	100%

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(vi) Vehicles with no known final outcome (regardless of reason)

Please see section (d)(2)(ii) and review "Registrations and Compliance Analysis 2013/2014"

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(vii) – (x) [Reserved]



2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xi) Passing the on-board diagnostic check

173,313

See attached report:

(a)(2)(xi) Passing the On-Board Diagnostic Test, 2014

(a)(2)(xi) Passing the On-Board Diagnostic Test 2014

OBD TESTS		VEHICLE TYPE				PERCENTAGE VEHICLE TYPE		
Model Year	Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P
1994	1	0	0	0	1	100%	0%	0%
1996	1,706	1,248	3,343	0	6,297	27%	19%	53%
1997	210	110	383	0	703	29%	15%	54%
1998	3,764	1,813	6,168	0	11,745	32%	15%	52%
1999	303	219	565	0	1,087	27%	20%	51%
2000	5,676	3,189	10,286	0	19,151	29%	16%	53%
2001	392	244	826	0	1,462	26%	16%	56%
2002	7,613	4,087	12,330	0	24,030	31%	17%	51%
2003	454	261	780	0	1,495	30%	17%	52%
2004	8,090	5,305	13,355	0	26,750	30%	19%	49%
2005	416	293	725	0	1,434	29%	20%	50%
2006	7,977	4,803	14,123	0	26,903	29%	17%	52%
2007	335	269	613	0	1,217	27%	22%	50%
2008	7,569	6,136	14,455	0	28,160	26%	21%	51%
2009	133	143	362	0	638	20%	22%	56%
2010	6,051	4,354	11,450	0	21,855	27%	19%	52%
2011	114	155	116	0	385	29%	40%	30%
					173313			

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xii) Failing the on-board diagnostic check

18,236

See attached report:

(a)(2)(xii) Failing the On-Board Diagnostic Test, 2014

(a)(2)(xii) Failing the On-Board Diagnostic Test 2014

OBD TESTS		VEHICLE TYPE				PERCENTAGE VEHICLE TYPE		
Model Year	Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P
1996	562	312	872	0	1,746	32%	17%	49%
1997	95	59	161	0	315	30%	18%	51%
1998	826	411	1,316	0	2,553	32%	16%	51%
1999	86	80	209	0	375	22%	21%	55%
2000	865	403	2,010	0	3,278	26%	12%	61%
2001	113	55	270	0	438	25%	12%	61%
2002	976	415	1,933	0	3,324	29%	12%	58%
2003	69	49	169	0	287	24%	17%	58%
2004	668	393	1,335	0	2,396	27%	16%	55%
2005	61	26	121	0	208	29%	12%	58%
2006	557	334	1,051	0	1,942	28%	17%	54%
2007	27	20	68	0	115	23%	17%	59%
2008	188	197	555	0	940	20%	20%	59%
2009	8	4	17	0	29	27%	13%	58%
2010	66	65	154	0	285	23%	22%	54%
2011	1	3	1	0	5	20%	60%	20%
					18,236			

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xiii) Failing the on-board diagnostic check and passing the tailpipe test  
(if applicable)

Not applicable

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xiv) Failing the on-board diagnostic check and failing the tailpipe test  
(if applicable)

Not applicable

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xv) Passing the on-board diagnostic check and failing the I/M gas cap  
evaporative test (if applicable)

102

See attached report:

(a)(2)(xv) Vehicles Passing OBD Test and Failing Gas Cap, 2014

(a)(2)(xv) Vehicles Passing OBD Test and Failing Gas Cap 2014

OBD TESTS	VEHICLE TYPE					PERCENTAGE VEHICLE TYPE		
Model Year	Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P
1996	4	1	2	0	7	57%	14%	28%
1997	1	0	0	0	1	100%	0%	0%
1998	3	0	5	0	8	37%	0%	62%
1999	1	0	0	0	1	100%	0%	0%
2000	2	0	9	0	11	18%	0%	81%
2001	0	0	2	0	2	0%	0%	100%
2002	3	1	9	0	13	23%	7%	69%
2004	8	6	25	0	39	20%	15%	64%
2005	0	0	1	0	1	0%	0%	100%
2006	2	0	8	0	10	20%	0%	80%
2008	1	0	4	0	5	20%	0%	80%
2010	1	0	2	0	3	33%	0%	66%
2011	0	0	1	0	1	0%	0%	100%



2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xvi) Failing the on-board diagnostic check and passing the I/M gas cap  
evaporative system test (if applicable)

18,198

See attached report:

(a)(2)(xvi) Vehicles Failing OBD Test and Passing Gas Cap, 2014

(a)(2)(xvi) Vehicles Failing OBD Test and Passing Gas Cap 2014

OBD TESTS		VEHICLE TYPE				PERCENTAGE VEHICLE TYPE			
Model Year	Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P	
1996	556	311	869	0	1,736	32%	17%	50%	
1997	95	59	161	0	315	30%	18%	51%	
1998	826	411	1,311	0	2,548	32%	16%	51%	
1999	86	80	209	0	375	22%	21%	55%	
2000	863	402	2,005	0	3,270	26%	12%	61%	
2001	113	55	269	0	437	25%	12%	61%	
2002	975	415	1,928	0	3,318	29%	12%	58%	
2003	68	49	169	0	286	23%	17%	59%	
2004	668	391	1,332	0	2,391	27%	16%	55%	
2005	61	26	121	0	208	29%	12%	58%	
2006	557	334	1,050	0	1,941	28%	17%	54%	
2007	27	20	68	0	115	23%	17%	59%	
2008	188	197	554	0	939	20%	20%	58%	
2009	8	4	17	0	29	27%	13%	58%	
2010	66	65	154	0	285	23%	22%	54%	
2011	1	3	1	0	5	20%	60%	20%	
					18,198				

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xvii) Passing both the on-board diagnostic check and the I/M gas cap  
evaporative system test (if applicable)

173,211

See attached report:

(a)(2)(xvii) Vehicles Passing Both the OBD Test and Gas Cap, 2014

(a)(2)(xvii) Vehicles Passing Both the OBD Test and Gas Cap 2014

OBD TESTS		VEHICLE TYPE				PERCENTAGE VEHICLE TYPE		
Model Year	Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P
1994	1	0	0	0	1	100%	0%	0%
1996	1,702	1,247	3,341	0	6,290	27%	19%	53%
1997	209	110	383	0	702	29%	15%	54%
1998	3,761	1,813	6,163	0	11,737	32%	15%	52%
1999	302	219	565	0	1,086	27%	20%	52%
2000	5,674	3,189	10,277	0	19,140	29%	16%	53%
2001	392	244	824	0	1,460	26%	16%	56%
2002	7,610	4,086	12,321	0	24,017	31%	17%	51%
2003	454	261	780	0	1,495	30%	17%	52%
2004	8,082	5,299	13,330	0	26,711	30%	19%	49%
2005	416	293	724	0	1,433	29%	20%	50%
2006	7,975	4,803	14,115	0	26,893	29%	17%	52%
2007	335	269	613	0	1,217	27%	22%	50%
2008	7,568	6,136	14,451	0	28,155	26%	21%	51%
2009	133	143	362	0	638	20%	22%	56%
2010	6,050	4,354	11,448	0	21,852	27%	19%	52%
2011	114	155	115	0	384	29%	40%	29%
					173211			

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xviii) Failing both the on-board diagnostic check and the I/M gas cap  
evaporative system test (if applicable)

38

See attached report:

(a)(2)(xviii) Vehicles Failing Both the OBD Test and Gas Cap, 2014

**(a)(2)(xviii) Vehicles Failing Both the OBD Test and Gas Cap 2014**

OBD TESTS	VEHICLE TYPE					PERCENTAGE VEHICLE TYPE		
Model Year	Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P
1996	6	1	3	0	10	60%	10%	30%
1998	0	0	5	0	5	0%	0%	100%
2000	2	1	5	0	8	25%	12%	62%
2001	0	0	1	0	1	0%	0%	100%
2002	1	0	5	0	6	16%	0%	83%
2003	1	0	0	0	1	100%	0%	0%
2004	0	2	3	0	5	0%	40%	60%
2006	0	0	1	0	1	0%	0%	100%
2008	0	0	1	0	1	0%	0%	100%

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xix) MIL is commanded on and no codes are stored

200

See attached report:

(a)(2)(xix) MIL is Commanded On and No Codes Stored, 2014

(a)(2)(xix) MIL is Commanded On and No Codes Stored 2014

OBD TESTS		VEHICLE TYPE				PERCENTAGE VEHICLE TYPE		
Model Year	Type 1	Type 2	Type P	OTHER	Total	Type 1	Type 2	Type P
1996	6	0	20	0	26	23%	0%	76%
1997	2	1	0	0	3	66%	33%	0%
1998	7	4	27	0	38	18%	10%	71%
1999	0	1	3	0	4	0%	25%	75%
2000	10	0	23	0	33	30%	0%	69%
2001	0	2	3	0	5	0%	40%	60%
2002	6	0	24	0	30	20%	0%	80%
2003	1	0	1	0	2	50%	0%	50%
2004	4	2	7	0	13	30%	15%	53%
2005	2	0	0	0	2	100%	0%	0%
2006	13	2	15	0	30	43%	6%	50%
2007	0	1	0	0	1	0%	100%	0%
2008	0	1	6	0	7	0%	14%	85%
2009	0	0	1	0	1	0%	0%	100%
2010	0	1	4	0	5	0%	20%	80%



2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xx) MIL is not commanded on and codes are stored

2541

See attached report:

(a)(2)(xx) MIL is NOT Commanded On but Codes are Stored, 2014

**(a)(2)(xx) MIL is NOT Commanded On but Codes Stored 2014**

	Type 1	Type 2	Type P	Other		Type 1	Type 2	Type P
1996	148	109	246	0	503	29	21	48
1997	18	13	43	0	74	24	17	58
1998	234	105	211	0	550	42	19	38
1999	19	9	38	0	66	28	13	57
2000	191	111	282	0	584	32	19	48
2001	19	10	42	0	71	26	14	59
2002	60	36	208	0	304	19	11	68
2003	5	3	22	0	30	16	10	73
2004	34	31	105	0	170	20	18	61
2005	5	4	10	0	19	26	21	52
2006	48	14	41	0	103	46	13	39
2007	3	0	3	0	6	50	0	50
2008	14	13	19	0	46	30	28	41
2009	1	0	2	0	3	33	0	66
2010	2	1	9	0	12	16	8	75

2541

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xxi) MIL is commanded on and codes are stored

17,177

See attached report:

(a)(2)(xxi) MIL is Commanded On and Codes Stored, 2014

**(a)(2)(xxi) MIL is Commanded On and Codes Stored 2014**

	Type 1	Type 2	Type P	Other		Type 1	Type 2	Type P
1996	501	266	799	0	1,566	31	16	51
1997	82	48	152	0	282	29	17	53
1998	764	367	1,238	0	2,369	32	15	52
1999	79	73	186	0	338	23	21	55
2000	801	372	1,887	0	3,060	26	12	61
2001	101	52	256	0	409	24	12	62
2002	935	391	1,842	0	3,168	29	12	58
2003	66	48	162	0	276	23	17	58
2004	654	374	1,291	0	2,319	28	16	55
2005	57	24	124	0	205	27	11	60
2006	538	322	986	0	1,846	29	17	53
2007	28	18	67	0	113	24	15	59
2008	182	193	546	0	921	19	20	59
2009	8	4	16	0	28	28	14	57
2010	64	63	147	0	274	23	22	53
2011	0	2	1	0	3	0	66	33
					17,177			

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xxii) MIL is not commanded on and no codes are stored

204,562

See attached report:

(a)(2)(xxii) MIL is NOT Commanded On and NO Codes Stored, 2014

(a)(2)(xxii) MIL is NOT Commanded On and NO Codes Stored 2014

	Type 1	Type 2	Type P	Other		Type 1	Type 2	Type P
1994	0	1	0	0	1	0	100	0
1996	2,849	2,141	5,502	0	10,492	27	20	52
1997	406	272	709	0	1,387	29	19	51
1998	5,569	2,861	8,512	0	16,942	32	16	50
1999	506	374	943	0	1,823	27	20	51
2000	7,598	4,243	13,673	0	25,514	29	16	53
2001	683	345	1,388	0	2,416	28	14	57
2002	8,965	4,631	15,247	0	28,843	31	16	52
2003	571	304	1,127	0	2,002	28	15	56
2004	8,872	5,875	15,261	0	30,008	29	19	50
2005	508	340	918	0	1,766	28	19	51
2006	8,802	5,115	15,122	0	29,039	30	17	52
2007	380	299	709	0	1,388	27	21	51
2008	7,866	6,370	15,074	0	29,310	26	21	51
2009	142	155	394	0	691	20	22	57
2010	6,221	4,453	11,865	0	22,539	27	19	52
2011	118	164	119	0	401	29	40	29

204562

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(2) By model year and vehicle type, the number and percentage of vehicles:

(xxiii) Readiness status indicates that the evaluation is not complete for any module supported by on-board diagnostic systems

224,480

See attached report:

(a)(2)(xxiii) Readiness Indicates EVAL is NOT Complete for Any Supported Module, 2014

(a)(2)(xxiii) Readiness Indicates EVAL is NOT Complete for Any Supported Module 2014

	Type 1	Type 2	Type P	Other		Type 1	Type 2	Type P	
1994	0	1	0	0	1	0	100	0	
1996	3,504	2,516	6,567	0	12,587	27	19	52	
1997	508	334	904	0	1,746	29	19	51	
1998	6,574	3,337	9,988	0	19,899	33	16	50	
1999	604	457	1,170	0	2,231	27	20	52	
2000	8,600	4,726	15,865	0	29,191	29	16	54	
2001	803	409	1,689	0	2,901	27	14	58	
2002	9,967	5,058	17,320	0	32,345	30	15	53	
2003	643	355	1,312	0	2,310	27	15	56	
2004	9,564	6,282	16,664	0	32,510	29	19	51	
2005	572	368	1,052	0	1,992	28	18	52	
2006	9,401	5,453	16,164	0	31,018	30	17	52	
2007	411	318	779	0	1,508	27	21	51	
2008	8,062	6,577	15,645	0	30,284	26	21	51	
2009	151	159	413	0	723	20	21	57	
2010	6,287	4,518	12,025	0	22,830	27	19	52	
2011	118	166	120	0	404	29	41	29	
					224480				



2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(3) The initial test volume by model year and test station

198,384

See attached report:

(a)(3) Initial test volume by Model Year and Station, 2014

**(a)(3) Initial test volume by Model Year and Station 2014**

MODEL YEAR	STATION								TOTAL
	1	2	3	4	5	8	9		
1976		20	23	11	25	13	4	10	106
1977		4	3	2	2	1	1	0	13
1978		35	36	10	30	19	16	19	165
1979		6	8	3	4	2	4	5	32
1980		30	19	9	24	8	8	9	107
1981		4	3	0	2	3	2	2	16
1982		16	30	11	25	8	8	11	109
1983		8	7	4	2	4	3	1	29
1984		70	46	24	58	29	30	39	296
1985		24	7	4	5	7	6	13	66
1986		89	97	40	82	54	39	48	449
1987		15	7	8	12	8	15	10	75
1988		166	164	100	109	110	88	97	834
1989		33	39	10	23	5	23	19	152
1990		263	261	144	208	177	132	157	1342
1991		44	31	15	22	19	21	23	175
1992		489	488	295	331	268	265	285	2421
1993		51	45	33	51	39	59	48	326
1994		1,150	1,094	551	812	551	611	648	5417
1995		145	122	65	99	42	101	78	652
1996		1,723	1,645	743	1,288	813	849	927	7988
1997		212	156	70	144	90	112	111	895
1998		2,773	2,879	1,351	2,426	1,492	1,353	1,547	13821
1999		283	259	111	175	131	171	148	1278
2000		4,271	4,654	1,928	3,962	2,443	2,073	2,466	21797
2001		316	289	97	250	155	167	190	1464
2002		4,736	5,712	2,258	5,160	3,238	2,106	2,912	26122
2003		279	287	120	258	173	150	162	1429
2004		4,471	6,218	2,387	5,875	3,869	2,105	3,290	28215
2005		309	237	92	277	181	150	157	1403
2006		4,143	6,506	2,142	6,145	3,926	1,942	3,122	27926
2007		282	220	68	249	155	107	145	1226
2008		3,611	6,781	2,201	6,862	4,509	1,551	3,235	28750
2009		98	150	39	167	90	37	89	670
2010		2,578	5,365	1,602	5,434	3,705	1,012	2,504	22200
2011		99	84	25	78	56	24	52	418
Grand Total		32,846	43,972	16,573	40,676	26,393	15,345	22,579	198384

### Indiana Vehicle Emission Test Site List

Test Site	Address	County
#1 (Hammond)	1231 Gostlin Street Hammond, IN 46327	Lake Co.
#2 (Griffith)	232 South Ivanhoe Court Griffith, IN 46319	Lake Co.
#3 (Hobart)	325 Sullivan Street Hobart, IN 46342	Lake Co.
#4 (Crown Point)	755 North Industrial Boulevard Crown Point, IN 46307	Lake Co.
#5 (Valparaiso)	2503 Beech Street Valparaiso, IN 46383	Porter Co.
#8 (Gary)	3901 West Fourth Avenue Gary, IN 46406	Lake Co.
#9 (Portage)	5777 Melton Road (US 20) Portage, IN 46368	Porter Co.

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(4) The initial test failure rate by model year and test station

17,290

See attached report:

(a)(4) Initial Test Failure Rate by Model Year and Test Station, 2014

**(a)(4) Initial test Failure by Model Year and Station 2014**

MODEL YEAR	STATION								TOTAL
	1	2	3	4	5	8	9		
1976		2	2	1	6	2	1	4	18
1977		2	0	2	1	0	0	0	5
1978		6	11	3	6	6	4	4	40
1979		2	5	2	1	0	0	2	12
1980		8	6	2	4	1	1	4	26
1981		2	1	0	2	1	1	1	8
1982		6	7	3	4	1	4	0	25
1983		1	5	2	0	2	0	0	10
1984		17	10	5	7	5	7	13	64
1985		6	3	0	1	1	2	3	16
1986		20	24	9	12	7	9	17	98
1987		5	1	3	3	0	4	2	18
1988		57	35	19	23	23	26	30	213
1989		11	11	1	7	1	6	4	41
1990		82	66	38	36	35	40	27	324
1991		18	13	6	6	4	7	8	62
1992		186	147	98	82	71	98	92	774
1993		17	18	14	24	10	23	21	127
1994		335	249	125	171	96	213	166	1355
1995		39	30	14	19	3	41	21	167
1996		305	228	93	129	89	220	169	1233
1997		39	22	8	19	14	29	21	152
1998		485	309	151	254	168	323	214	1904
1999		49	35	15	15	19	36	17	186
2000		588	464	184	354	188	435	282	2495
2001		61	37	7	24	24	48	21	222
2002		587	522	198	407	245	389	260	2608
2003		35	24	5	28	11	31	22	156
2004		409	352	166	312	215	286	234	1974
2005		26	20	6	21	13	24	12	122
2006		318	318	107	334	189	197	185	1648
2007		18	15	2	9	11	14	7	76
2008		152	162	60	160	100	88	104	826
2009		4	3	2	6	1	3	1	20
2010		37	53	14	56	44	25	31	260
2011		0	2	1	1	0	0	1	5
Grand Total	3,935	3,210	1,366	2,544	1,600	2,635	2,000	17290	

2014 Indiana response to:

40 CFR Part 51-Subpart S Inspection/Maintenance Program Requirements  
51.366 – Data Analysis and Reporting Requirements

(a) Test Data Report

(5) The average increase or decrease in tailpipe emission levels for HC, CO, and NOX (if applicable) after repairs by model year and vehicle type for vehicles receiving a mass emissions test.

See attached report:

Emissions Improvement by Model Year 2014

Note: Emissions improvement data reported in grams per mile improvement is reported as zero in this report if the average improvement is 00.49 gpm or less.

(a)(5) Emissions Improvement by Model Year 2014

Date is between 01/01/2014 and 12/31/2014

Model Year	Initial IM93 Tests #	Initial IM93 Failures #	Initial IM93 Failures %	Compliance After Repair Total	Compliance After Repair Pass	Compliance After Repair Waiver	Avg Improvement HC (grams/mile)	Avg Improvement CO (grams/mile)	Avg Improvement NOX (grams/mile)
1982	2	2	100.00%	2	2	0	0	0	0
1984	2	1	50.00%	1	1	0	0	0	0
1985	3	3	100.00%	2	2	0	0	0	0
1986	12	5	41.70%	3	3	0	0	0	0
1987	4	3	75.00%	2	2	0	0	0	0
1988	64	21	32.80%	13	13	0	0	0	0
1989	1	1	100.00%	1	1	0	0	0	0
1990	119	43	36.10%	18	18	0	0	0	0
1991	3	3	100.00%	2	2	0	0	0	0
1992	493	199	40.40%	41	41	0	0	0	0
1993	37	27	73.00%	17	17	0	0	0	0
1994	1856	560	30.20%	75	75	0	0	0	0
1995	13	5	38.50%	4	4	0	0	0	0
1996	6	4	66.70%	4	4	0	0	0	0
1998	2	0	0.00%	2	2	0	0	0	0
2000	3	0	0.00%	1	1	0	0	0	0
2002	4	1	25.00%	2	2	0	0	0	0
2004	3	1	33.30%	2	2	0	0	0	0
2008	1	0	0.00%	1	1	0	0	0	0
<b>Total</b>	<b>2628</b>	<b>879</b>	<b>33.40%</b>	<b>193</b>	<b>193</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>